CIVIL TECH LABS

Accredited by NABL as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer
Kodigehalli Sub Division,
BBMP, Bangalore.

18th March 2015

Dear Sir,

Sub: Improvements to Roads and Drains in Veerananapalya in ward no 07 Byatarayanapura.
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Report of the above.

Thanking you,

For Civil Tech Labs,

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560 027
Ph: 080 - 41142867, Email: civiltechlabs@gmail.com

TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP
Name of Work	Improvements to Roads and Drains in Veerananapalya in ward no 07 Byatarayanapura.
Name of Agency	Sri. B. M. Muniraju
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	CC-Work (Drain)	18/02/2015	18/03/2015	28	8.16	480	**21.33**	**21.63**
2					8.17	485	**21.56**	
3					8.18	495	**22.00**	

AE-1

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

Lab Incharge
Civil Tech Labs

CIVIL TECH LABS BANGALORE

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T-2654

To,

Assistant Executive Engineer
Kodigehalli Sub Division,
BBMP, Bangalore.

03rd March 2015

Dear Sir,

Sub: Testing of Wet Mix Macadam.

As requested, tests on physical properties were carried out for the Wet Mix Macadam sample supplied by you, for the work of **'Improvements to Roads and Drains in Veerananapalya in ward no 07 Byatarayanapura'.**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

Khushboo

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560 027
Ph: 080 - 41142867, Email: civiltechlabs@gmail.com

TEST REPORT

TEST ON WMM MIX

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP
Name of Work	Improvements to Roads and Drains in Veerananapalya in ward no 07 Byatarayanapura.
Name of the Agency	Sri. B. M. Muniraju
Date of Testing	02/03/2015
Reference	MORTH Table 400-11

IS Sieve Designation (mm)	% By Weight Passing IS Sieve	Actual % By Weight Passing IS Sieve	Remarks
53	100	100	**Satisfies Requirements**
45	95-100	98.5	
22.4	60-80	74.2	
11.2	40-60	53.8	
4.75	25-40	32.1	
2.36	15-30	22.6	
0.6	8-22	16.4	
0.075	0-8	6.5	

AE-1

Note:

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3.Any correction invalidates this report.
4.The results are based on the test conducted on samples supplied by the client.

Lab Incharge
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T-2654

To,

Assistant Executive Engineer
Kodigehalli Sub Division,
BBMP, Bangalore.

09th March 2015

Dear Sir,

Sub: Testing of Semi Dense Bituminous Concrete.

As requested, tests on physical properties were carried out for the Semi Dense Bituminous Concrete sample supplied by you, for the work of **'Improvements to Roads and Drains in Veerananapalya in ward no 07 Byatarayanapura'.**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

Khushboo

(KHUSHBOO L.)
Quality Manager

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TEST REPORT

TEST ON THE DETERMINATION OF BITUMEN CONTENT ON SEMI DENSE BITUMINOUS CONCRETE MIX-GRADE 2

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP
Name of Work	Improvements to Roads and Drains in Veerananapalya in ward no 07 Byatarayanapura.
Name of the Agency	Sri. B. M. Muniraju
Date of Testing	09/03/2015

A)

Sl. No.	Test	Test Method	Technical Reference
1	Extraction of mineral aggregate	**Test Method A (Centrifuge Method)**	**ASTM: D2172/ D2172M-11**
2	Determination of amount of mineral matter/fines in the extract	**Ashing Method**	

B)

Specification: As Per MORTH (4th Revision) Table 500-15, Bitumen Content for SDBC Grade-2 is MIN 5%

Sl. No.	Description	Values
1	Weight of bituminous mixture before extraction test, **W_1 g**	**2000**
2	Weight of mineral aggregate obtained from centrifuge extractor, **W_2 g**	**1884.5**
3	Weight of mineral matter in the total volume of extract (by ashing), **W_3 g**	**12.8**
4	Total weight of aggregate in the bituminous mixture, **W_4 g = (W_2 +W_3) g**	**1897.3**
5	Total weight of Bitumen extracted from the mixture, **W_5 g = (W_1-W_4) g**	**102.7**
6	Bitumen content in %, **(W_5/W_1) %**	**5.14**

Remarks	**Satisfies the requirements.**

Note:

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TEST REPORT

GRADATION TEST ON SEMI DENSE BITUMINOUS CONCRETE MIX GRADE - 2

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP
Name of Work	Improvements to Roads and Drains in Veerananapalya in ward no 07 Byatarayanapura.
Name of the Agency	Sri. B. M. Muniraju
Date of Testing	09/03/2015
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011)

	Sample-2		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 500-15 for SDBC Grade-2**	**Actual % By Weight Passing IS Sieve**	**Remarks**
13.2	100	**100**	**Satisfies the requirements**
9.5	90-100	**98.2**	
4.75	35-51	**45.3**	
2.36	24-39	**33.4**	
1.18	15-30	**23.8**	
0.3	9-19	**14.1**	
0.075	3-8	**6.4**	

Note:

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TEST REPORT

GRADATION TEST ON SEMI DENSE BITUMINOUS CONCRETE MIX GRADE - 2

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP
Name of Work	Improvements to Roads and Drains in Veerananapalya in ward no 07 Byatarayanapura.
Name of the Agency	Sri. B. M. Muniraju
Date of Testing	09/03/2015
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011)

	Sample-1		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 500-15 for SDBC Grade-2**	**Actual % By Weight Passing IS Sieve**	**Remarks**
13.2	100	**100**	**Satisfies the requirements**
9.5	90-100	**98.8**	
4.75	35-51	**46.1**	
2.36	24-39	**32.4**	
1.18	15-30	**24.1**	
0.3	9-19	**15.2**	
0.075	3-8	**6.9**	

Note:

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